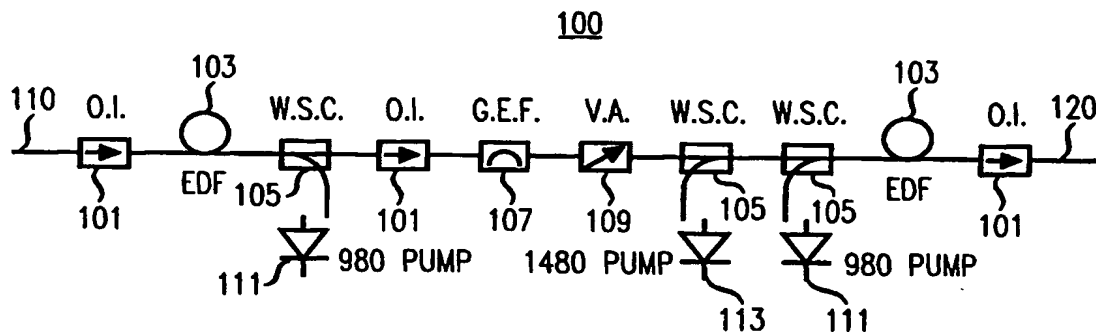




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(54) Title: GAIN TILT CONTROL WITH MID-STAGE ATTENUATORS IN ERBIUM-DOPED FIBER AMPLIFIERS



## (57) Abstract

Gain tilt control in erbium-doped fiber amplifiers is realized by adjusting the attenuation of mid-stage variable attenuators situated between multiple stages of the erbium-doped fiber amplifier. Positive power tilt in input signals is compensated by increasing attenuator loss while negative power tilt is compensated by decreasing the attenuator loss.